Monitoring Nomad Infrastructure

Eric Wright
Technology Evangelist, Podcaster

@DiscoPosse   www.discoposse.com   www.discopossepodcast.com

Overview

– **Explore Nomad monitoring requirements**
– **Learn what components should be monitored**
– **Observe a monitored Nomad cluster example**
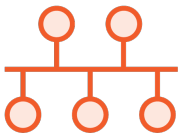
What Should You Monitor?

Monitoring a Nomad Cluster

Core host metrics

Container metrics

Network flow and security (OS and Consul)

Events and logs

Observability

Observability is a measure of how well internal states of a system can be inferred from knowledge of its external outputs.
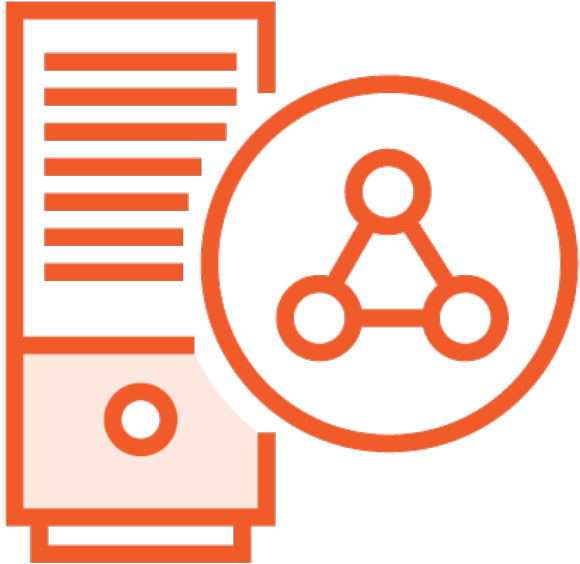
Observability vs Monitoring

Observability is a measure of how well internal states of a system can be inferred from knowledge of its external outputs.

A ··· B ··· C

A ··· B ··· C

Metrics

Traces

LOGS

Logs

Nomad Monitoring Example

Common Practices for Nomad Monitoring

Define your SOP (Standard Operating Procedure)

Monitor your hardware/IaaS

Monitor your Operating System

Monitor key services and utilization

Monitor and backup your logs and events

Stream and store events centrally, off-server

Run intra-day backups of core components

Demo

- Explore a Nomad system
  - Job and system logs
  - UI and CLI options

- Use New Relic to monitor our Nomad cluster

Summary

- **What should you monitor in a Nomad environment?**
- **What are some key differences between monitoring and observability?**
- **Viewed a sample monitoring configuration**

Course Summary

- Discussed deploying Nomad in production
- Used ACLs for simplified access control
- Managed and monitored Nomad jobs
- Reviewed high-availability design patterns
- Backed up the Nomad environment
- Upgraded a live Nomad cluster
- Configured monitoring for our Nomad cluster